

CResCO

Cyber Resilience for Complex AAM Operations

The aim

CResCO aims to create a simulating platform constituting a testing ground where Advanced Air Mobility (AAM) systems are subjected to simulated cyber-attacks, allowing to uncover vulnerabilities, assess risks, and develop robust mitigation strategies.



AAM



Cyber Resilience



Knowledge Graphs (KG)

The phases

Context:

- PRISMA-based meta review of cyber resilience in AAM
- PRISMA-based review of KG application in safety

Ontology and KG construction:

- Customization of existing ontologies
- Ontological integration of GPS outage

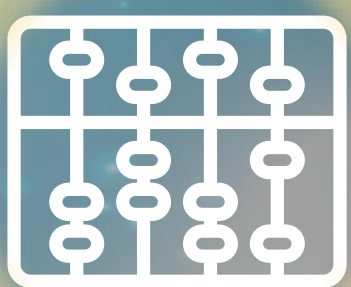
KG testing and validation:

- Queries and prompts to perform graph analytics and risk assessment



Scan me for results!

The results



Virtual sandbox via a dedicated Digital Twin for testing GPS outage scenarios



Engineered AAM Cyber Resilience



Decision-support tools to enable informed and adaptive safety management